

## **FIG. 1b**

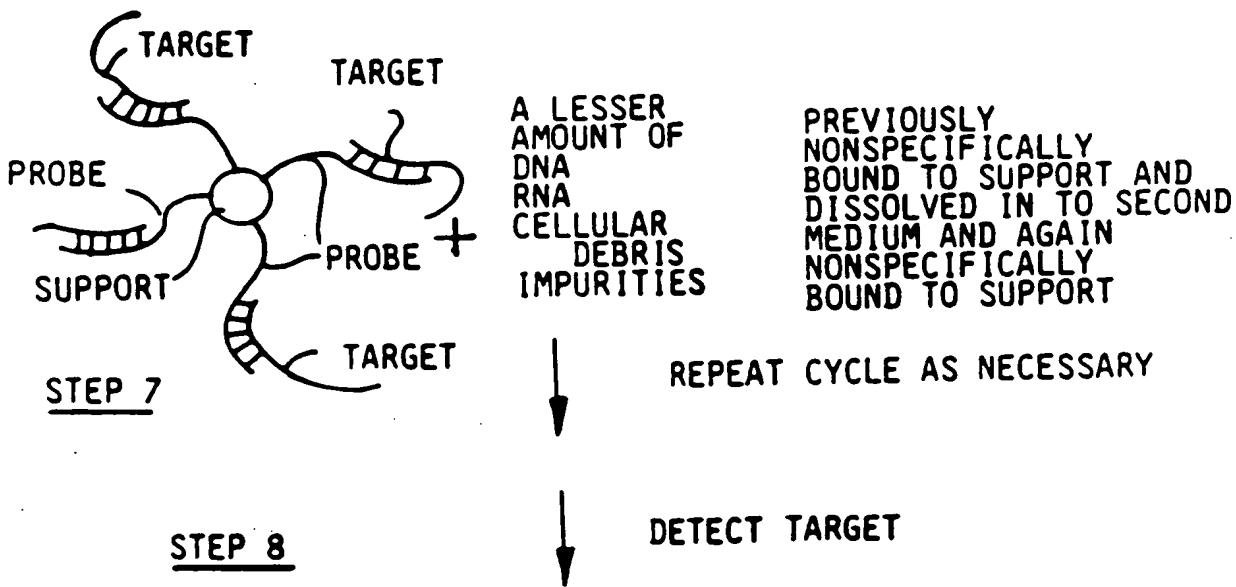
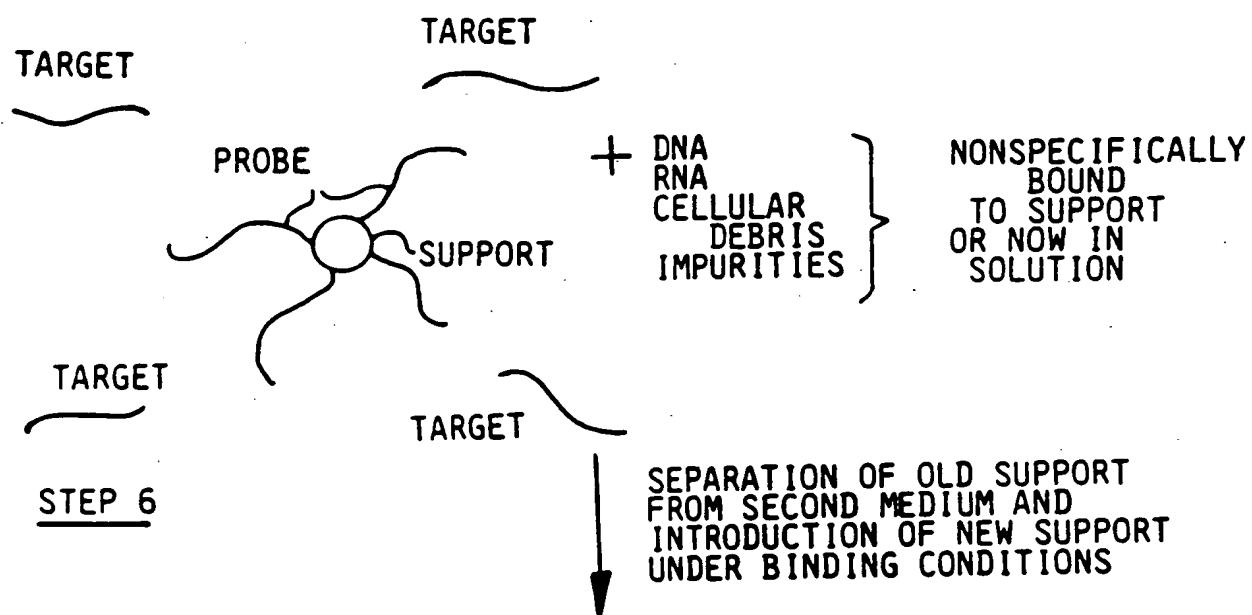
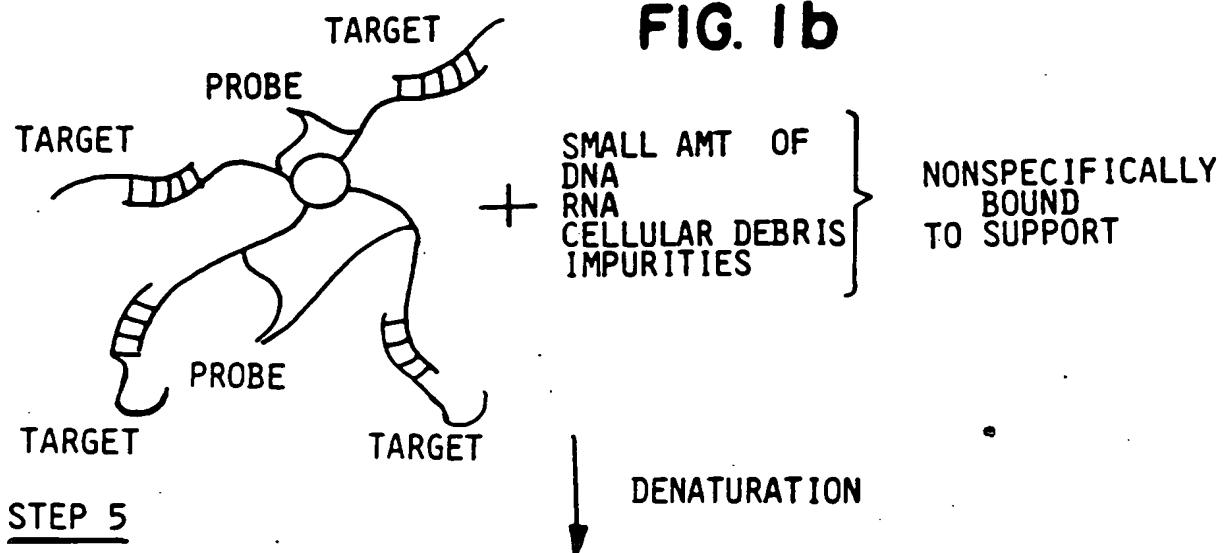


FIG. 2a

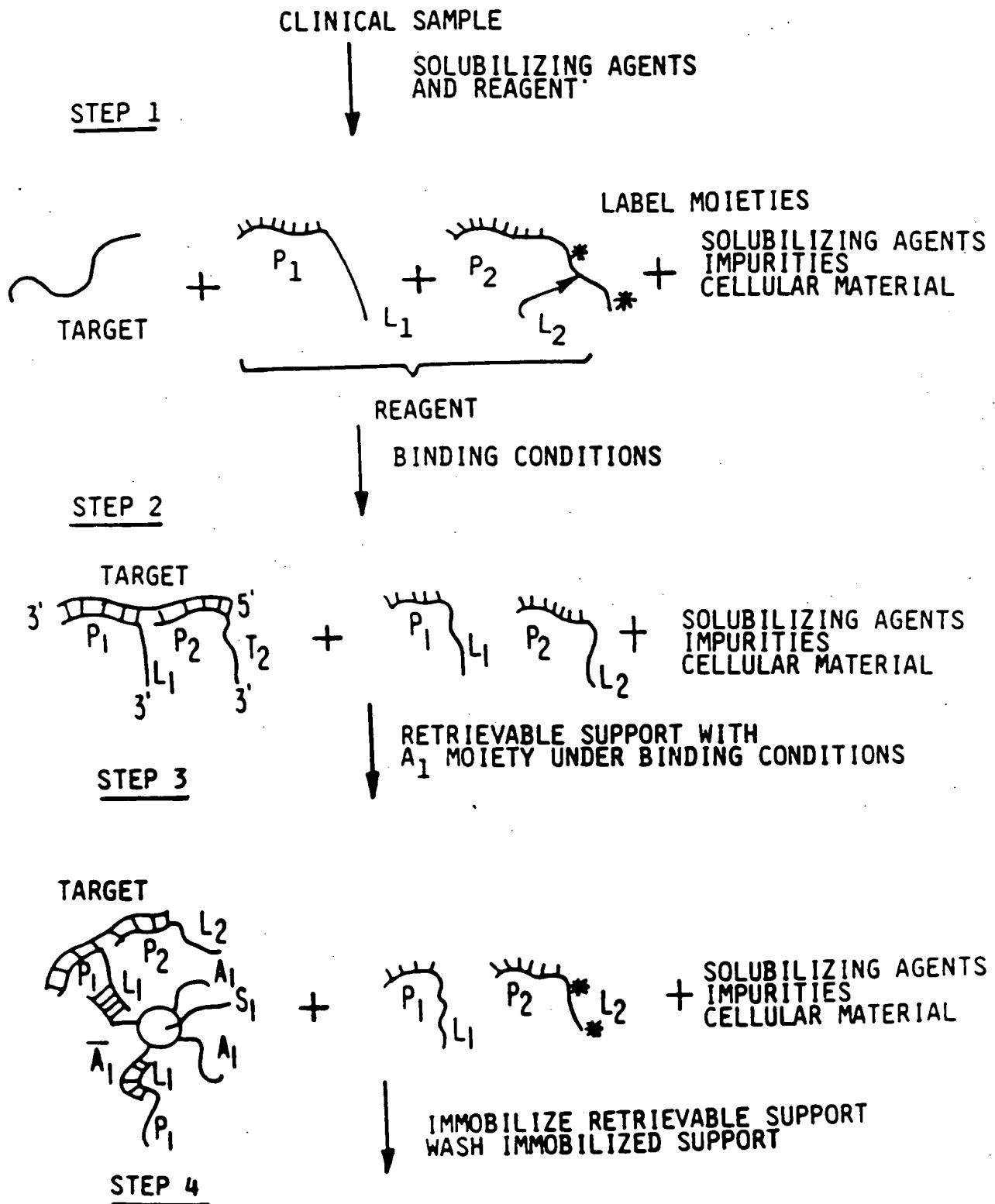
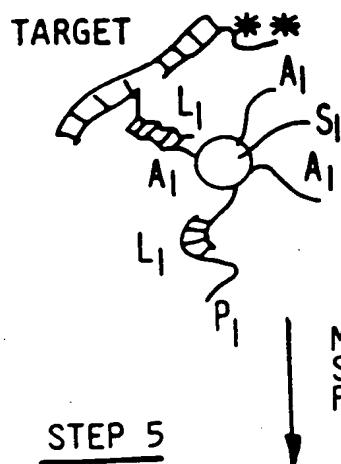


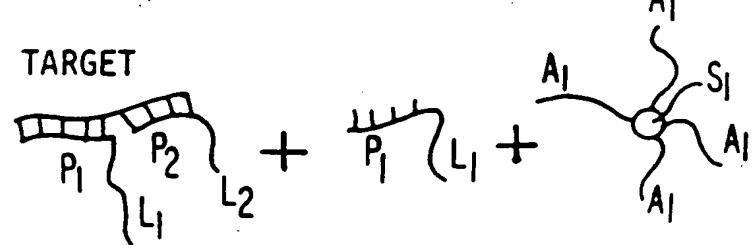
FIG. 2b



MONITOR SAMPLE FOR LABEL

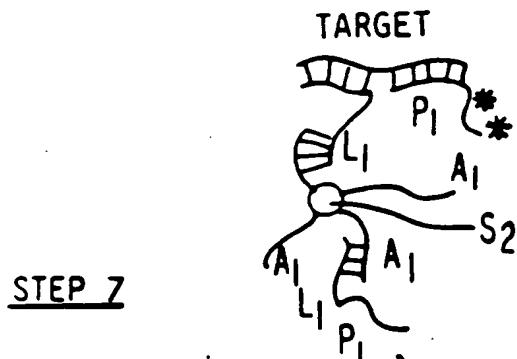
SEPARATE RETRIEVAL SUPPORT FROM TARGET-PROBE COMPLEX BY DENATURATION

STEP 5



REMOVE RETRIEVAL SUPPORT

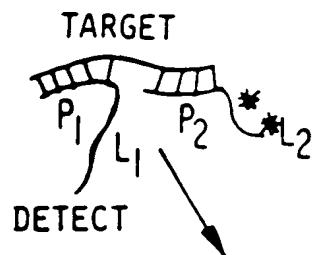
STEP 6



REPEAT CYCLE

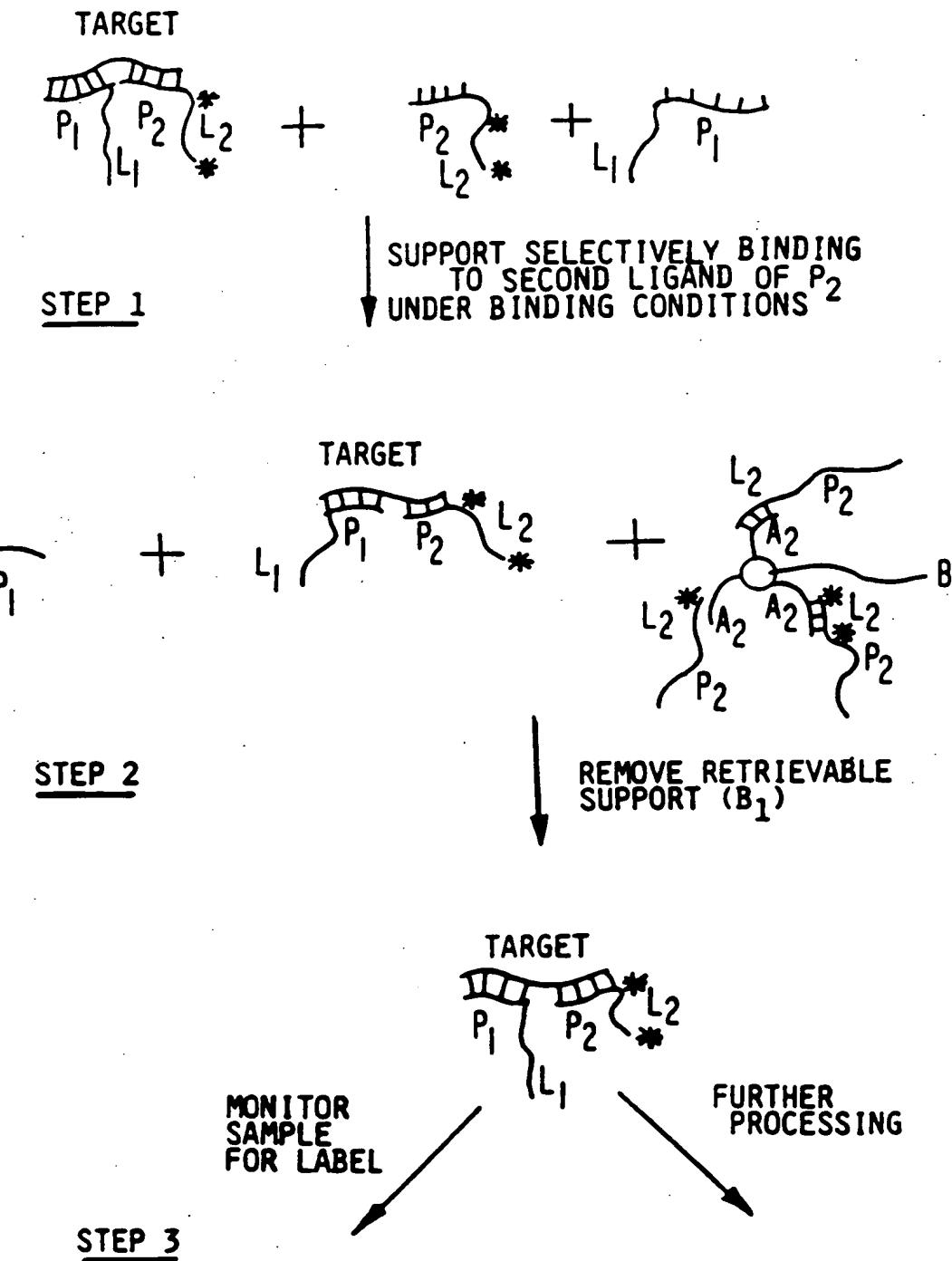
STEP 8

MONITOR SAMPLE FOR LABEL

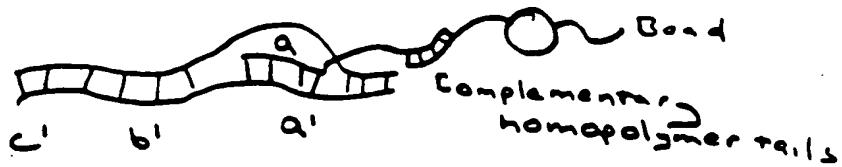


DETECT

FIG. 3



Target DNA in rough sample  
 Step 1 ↓  
 capture probe (red protein) 238080  
 capture bond  
 Binding conditions



Step 2 ↓ isolate bonds

Target DNA (substantially free of sample impurities, debris, extraneous polynucleotides)

Step 3

↓ core RNA polymerase  
 Low salt Buffer

target DNA  
 RNA complementary to target DNA

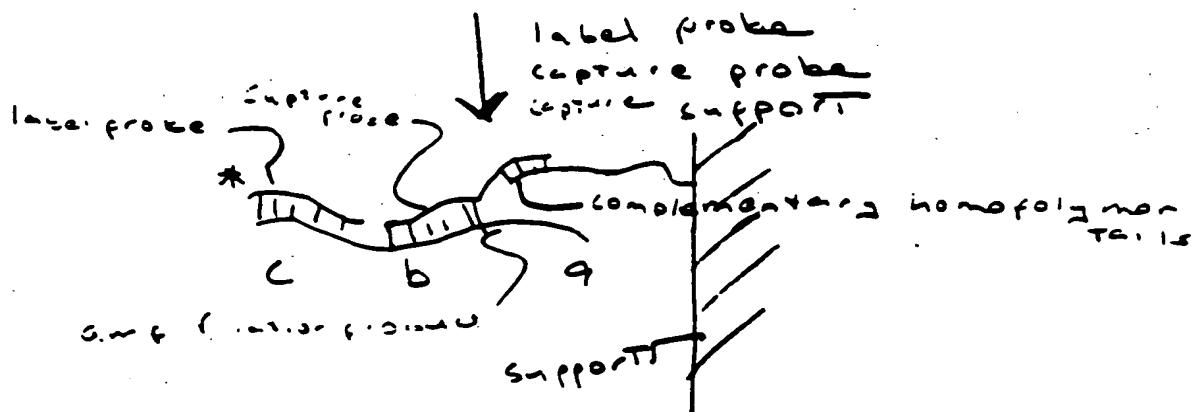
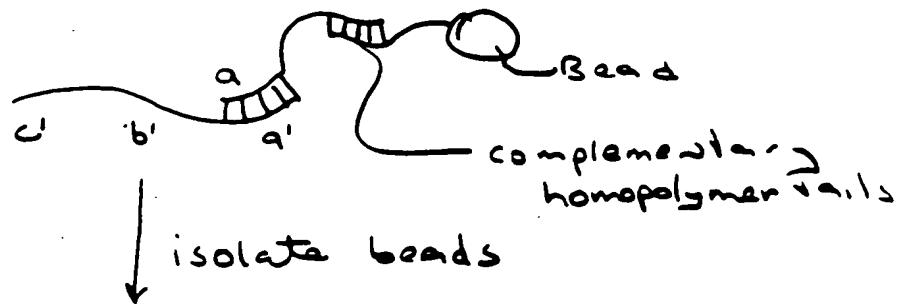


Fig. 5

Target DNA in rough sample

08/23 8080

Step 1



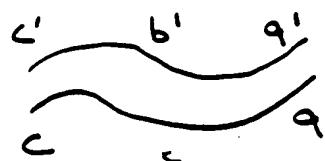
Step 2

isolate beads

Target DNA (substantially free of sample impurities, debris, extraneous polynucleotides)

Step 3a

DNA polymerase hexamer primers



Step 3b

core RNA polymerase low salt buffer



Step 4

labelled probe capture probe support

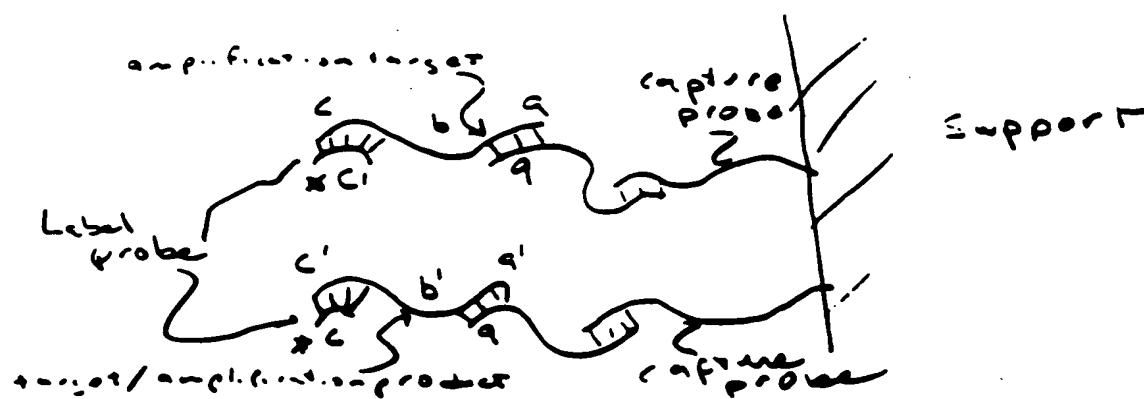
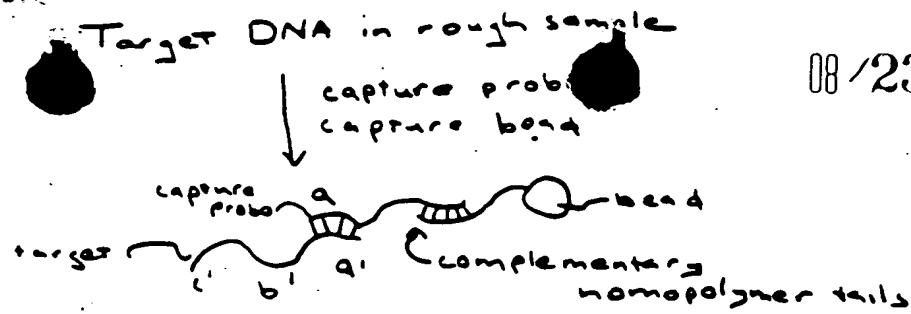


Fig 6

10/23/80

Step 1.



Step 2

isolate bead

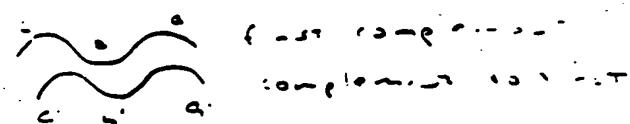
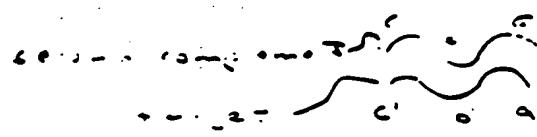
Target DNA (substantially free of sample impurities, detritus and extraneous polynucleotides)

Step 3a

DNA polymerase  
Homopolymer primers

Step 3b

1. denature  
2. DNA polymerase



denature  
label probe  
capture support  
capture probe

target/ amplification product

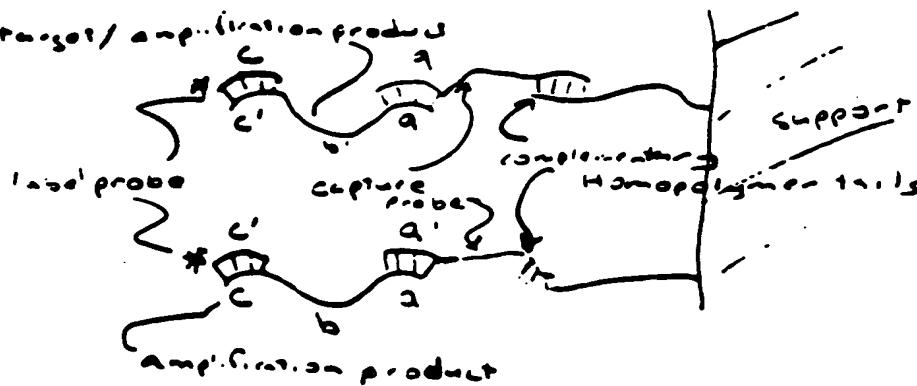
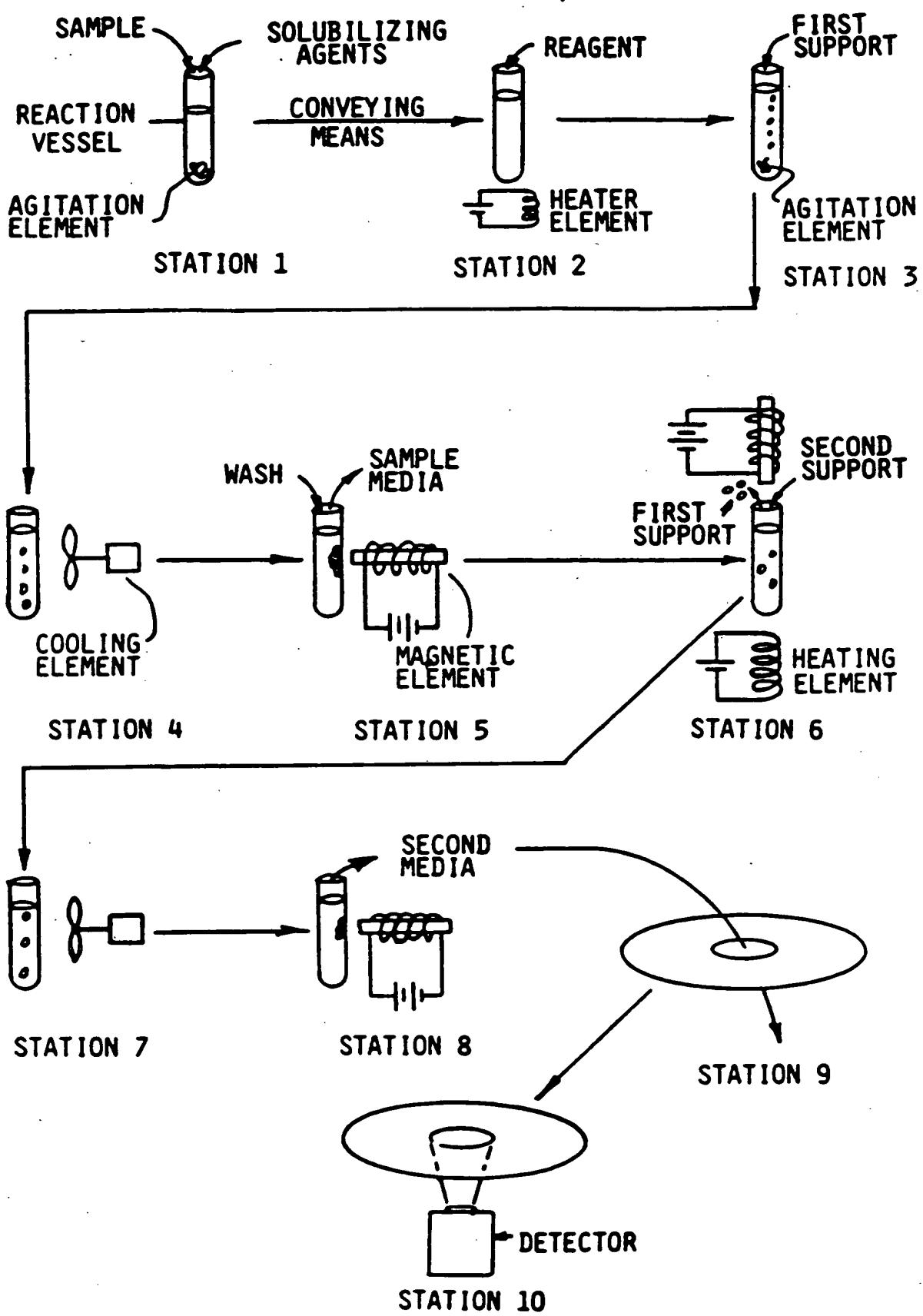


FIG. 7



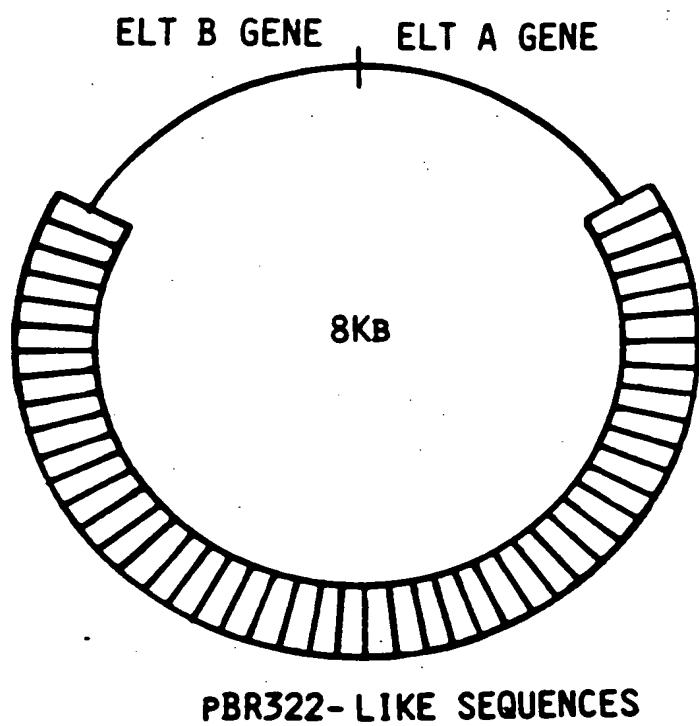


FIG. 8